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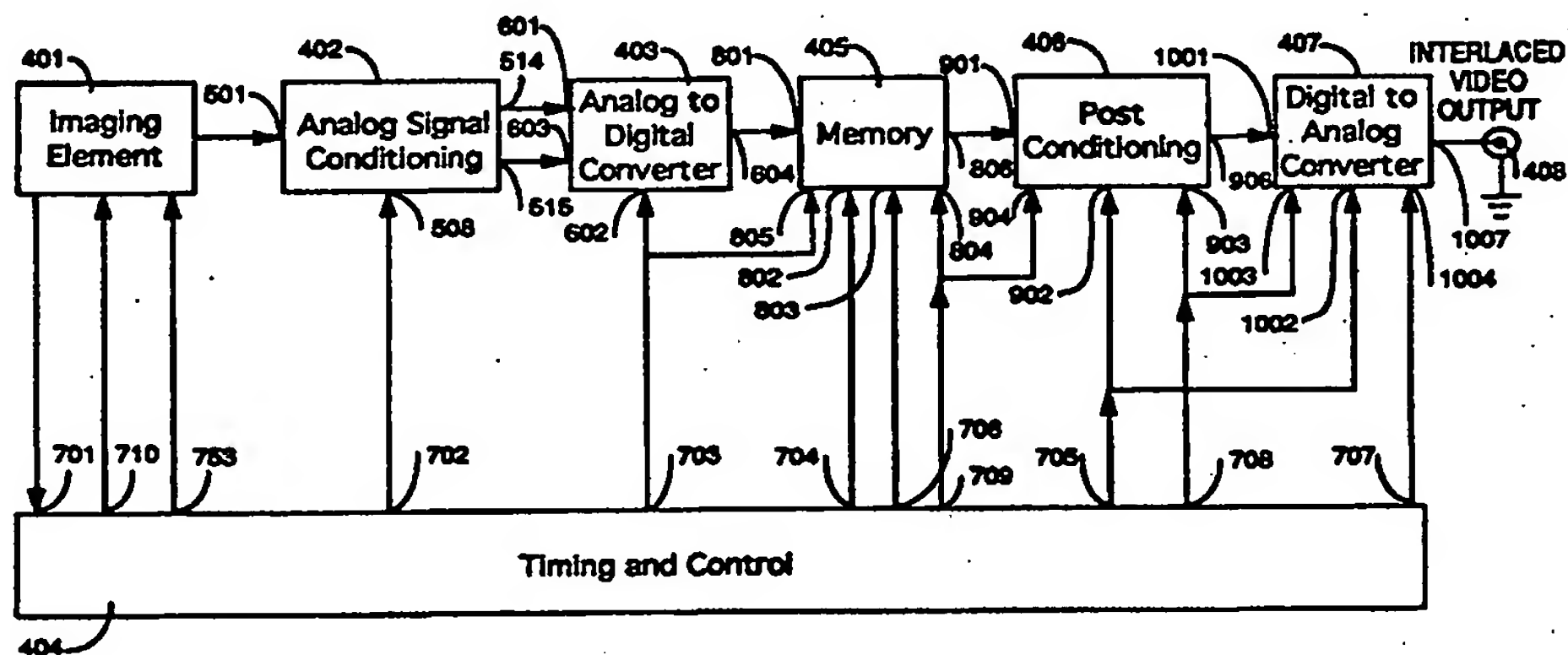
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(21) International Application Number: PCT/US95/01102 (22) International Filing Date: 24 January 1995 (24.01.95) (30) Priority Data: 08/186,733 25 January 1994 (25.01.94) US (71)(72) Applicants and Inventors: PRZYBORSKI, Glenn, B. [US/US]; 3060 Marshall Road, Pittsburgh, PA 15214 (US). GIBSON, Robert, F. [US/US]; 915 Gibson Lane, Pittsburgh, PA 15236 (US). HARN, John, H. [US/US]; 133 Old Ridge Road, Coraopolis, PA 15108 (US). HUCKE, Lloyd, R., III [US/US]; 107 Westchester Road, Library, PA 15129 (US). (74) Agent: SCHERMER, Leland, P.; Dickie, McCamey & Chilcote, P.C., Suite 400, TWO PPG Place, Pittsburgh, PA 15219 (US).		(81) Designated States: AU, CA, CN, JP, KR, MX, RU, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With a revised version of the international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> (88) Date of publication of the revised version of the international search report: 21 September 1995 (21.09.1995)

(54) Title: APPARATUS AND METHOD FOR CREATING FILM-LIKE VIDEO



(57) Abstract

A video camera for real time simulation of the visual appearance of motion picture film that has been transferred or converted to a video signal comprising analog signal input conditioning circuitry (402), an analog to digital converter (403), timing and control circuitry (404), an address multiplexer and memory control (405), a digital adder (406), and a digital to analog converter (407). A method for creating the look of broadcast motion picture film comprising the steps of increasing the scan rate of image sensors to output non-interlaced video images, converting the video images from analog to digital form, writing the images to memory, adding a selective adjustable amount of two dimensional, electronic artifacts to simulate film grain, reading the video images from memory to a video output data bus at predetermined rates, and converting the video images from digital to analog form for recording or broadcast.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US95/01102

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) : H04N 5/262
US CL : 348/578, 446, 239, 448, 321, 322
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 348/578, 446, 239, 448, 321, 322

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
APS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US, A, 5,065,243 (Katagiri) 12 November 1991, Figure 1.	1-4 & 6
A	US, A, 4,771,342 (Beesley) 13 September 1988, Figure 2.	1 & 2
A	US, A, 5,267,863 (Simmons, Jr.) 07 December 1993, col. 1, lines 11-17.	3
A	US, A, 5,012,326 (Sakamoto et al.) 30 April 1991, Figure 6.	4 & 6



Further documents are listed in the continuation of Box C.



See patent family annex.

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Name and mailing address of the ISA/US
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Box PCT
Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

CHERYL COHEN

Telephone No. (703) 308-5080